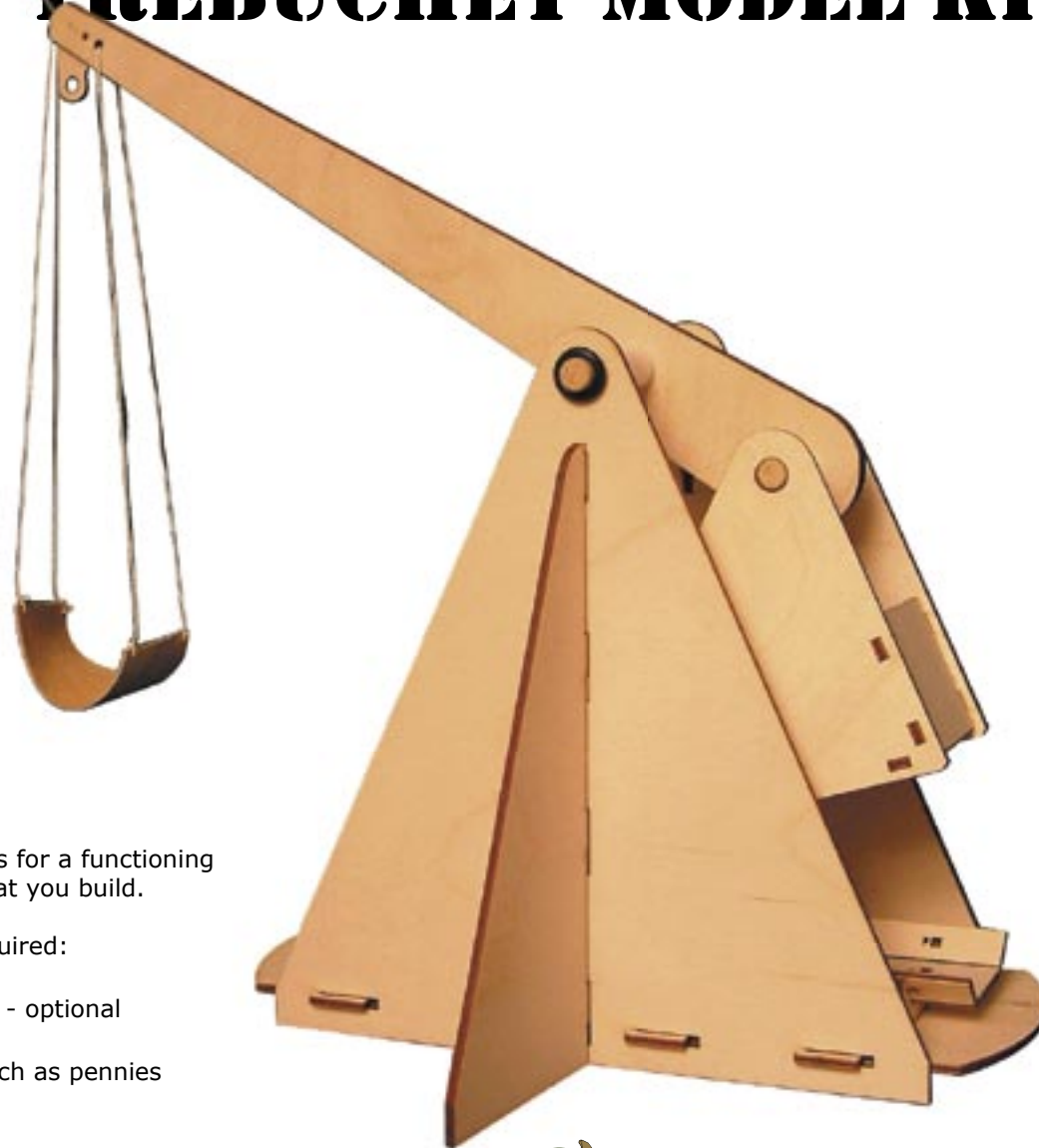


# TREBUCHET MODEL KIT



Kit includes all parts for a functioning model trebuchet that you build.

Additional tools required:

- Glue
- Sand paper - optional
- Projectile
- Weight - such as pennies

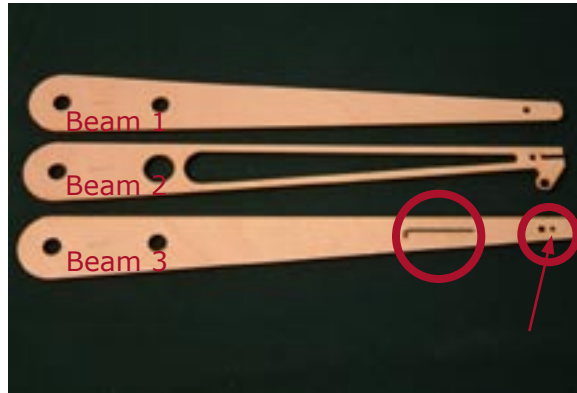


Warning: Choking hazard! Keep away from small children. This is functional model. Use with caution. Do not use sharp or dangerous objects as a projectile.

## STEP 1 - BOOM SUB-ASSEMBLY

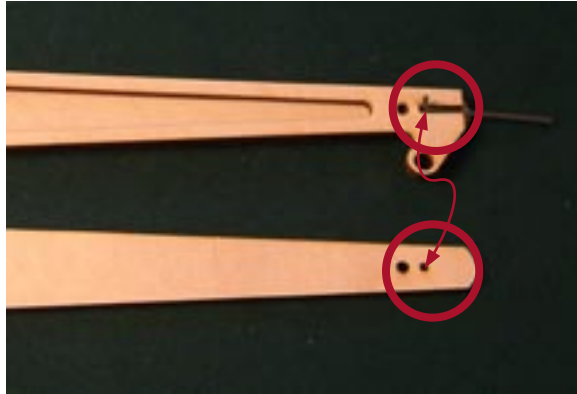
Glue the three beam sections, labeled beam 1, 2 and 3, together ensuring the sling hook is fitted into front hole of Beam 3.

Take care to keep all axel holes in alignment with each other.



## STEP 2 - DETAIL OF SLING HOOK

Align sling hook into slot at end of Beam 2 such that the bent end aligns with the forward hole in Beam 3. Glue in place.



## STEP 3 - FINISHED BOOM SUB-ASSEMBLY

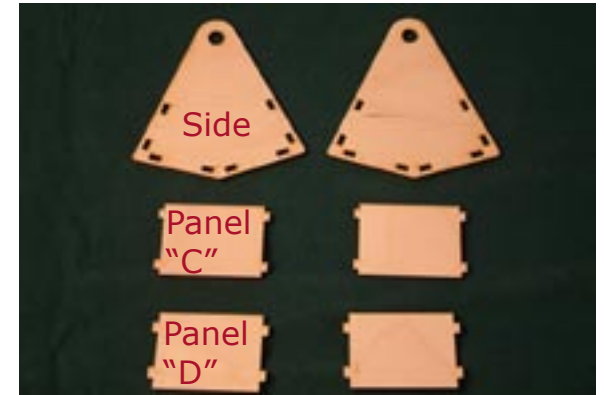
Set aside the sub-assembly and allow to dry.



## STEP 4 - WEIGHT BASKET SUB-ASSEMBLY

Locate 6 pieces for weight basket: two sides, two panels with tabs labeled "C", two panels with tabs labeled "D".

*Note: If tabs are too snug lightly sand its face until parts fit neatly.*



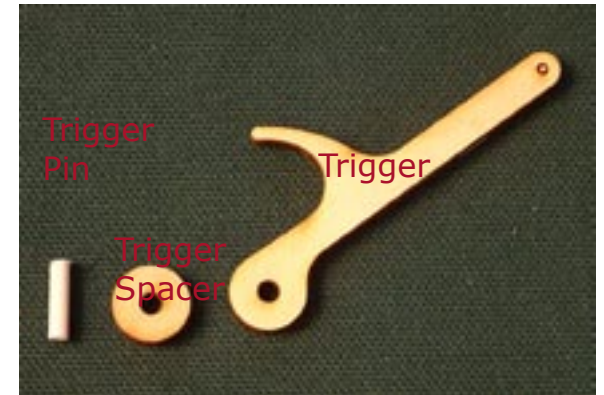
## STEP 5 - WEIGHT BASKET ALIGNMENT

Align tabs "C" and "D" with their respective slots labeled on sides. Glue in place and set aside to dry.



## STEP 6 - TRIGGER SUB-ASSEMBLY

Find the trigger, trigger spacer and trigger pin.



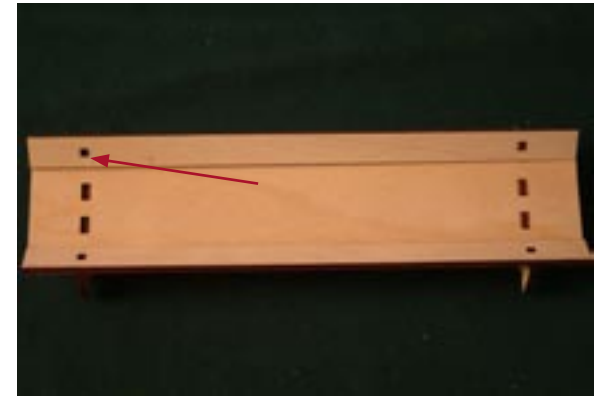
## STEP 7 - COMPLETED TRIGGER

Align spacer to trigger.  
Pin and glue together.  
Ensure pin is flush to  
surface of trigger side.  
Set aside to dry



## STEP 10 - TROUGH SIDES

Attach both sides to  
trough. Glue in place  
and set aside to dry.



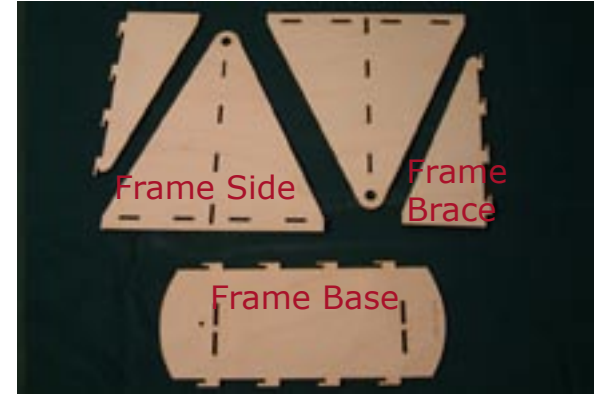
## STEP 8 - TROUGH SUB-ASSEMBLY

Locate five pieces for  
trough: Bed, two sides  
and two legs.



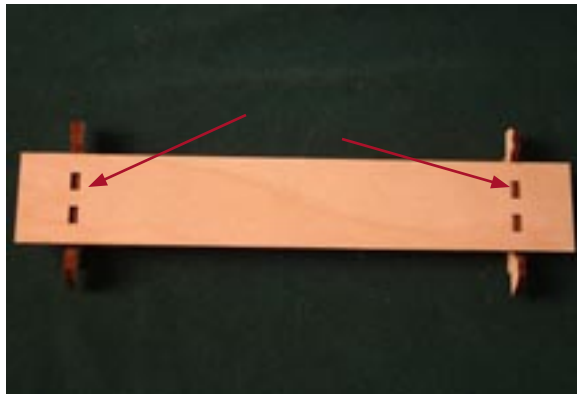
## STEP 11 - TREBUCHET FRAME

Find five sections  
of frame: Base, two  
sides and two braces.



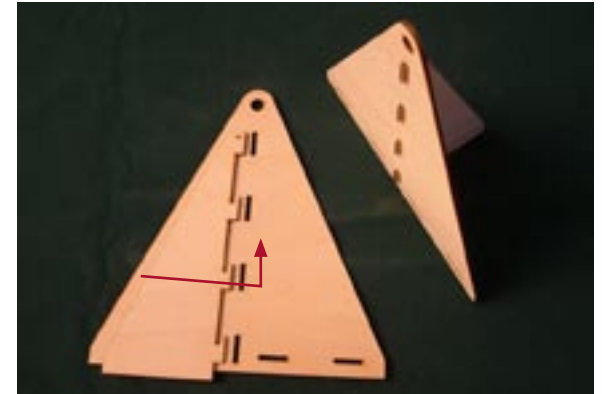
## STEP 9 - TROUGH BED

Attach legs to the bed  
by aligning labeled  
tabs and holes. Glue  
in place.



## STEP 12 - ATTACHING BRACING

Using two step se-  
quence, insert tabs of  
brace into side then  
slide brace toward top  
of side to lock into  
position. Gluing is  
optional. Repeat for  
other brace and side.



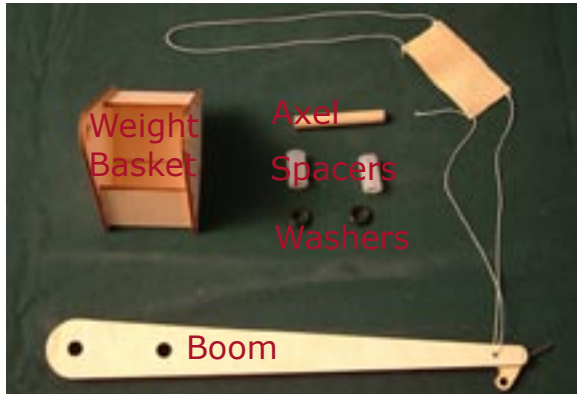
## STEP 13 - ATTACHING SIDES

Using similar motion as with braces, attach sides to brace. Gluing is optional.



## STEP 14 - WEIGHT BASKET AXEL

Gather the following parts for assembly: Short wooden axel, two short plastic spacers, two rubber washers and the sub-assemblies for the weight basket and boom.



## STEP 15 - AXEL SPACERS

Insert the axel through one side of weight basket and slide one spacer onto it.



## STEP 16 - ADDING BOOM

Continuing pushing axel through basket and spacer. Push axel through hole at the end of boom. Add the second spacer. Ensure boom rotates smoothly on axel. If it does not, adjust spacers to allow more freedom of movement.



## STEP 17 - SECURING AXEL

Once axel is through the basket, spacers and boom, slide washers onto either end to help prevent accidental disassembly. Glue can be added to secure the axel to sides of basket if needed. Just be certain to not glue boom to axel.



## STEP 18 - FRAME, TROUGH AND TRIGGER

Collect the frame, trough and trigger sub-assemblies.



## STEP 19 - TRIGGER DETAIL

Attach trigger by pushing tip of trigger pin through hole in the base of the frame. Do NOT glue!



## STEP 20 - ADDING TROUGH

As with the sides and base, the trough is attached using the locking tabs. Be sure to align tabs "A" and "B" appropriately to base. Failure to do so will result in a trough that is off center from base. Gluing is optional. Ensure trigger rotates smoothly.



## STEP 21 - BOOM AXEL

Collect these pieces: Long wooden axel, two long plastic spacers, two rubber washers, boom assembly and base.



## STEP 22 - ATTACHING AXEL

Insert axel through boom. Slide spacers, one on each side, onto axel. Keep spacers snug to boom but not too tight. Axel should rotate freely.



## STEP 23 - AXEL DETAIL

Fit tips of axel through holes at top of frame sides.



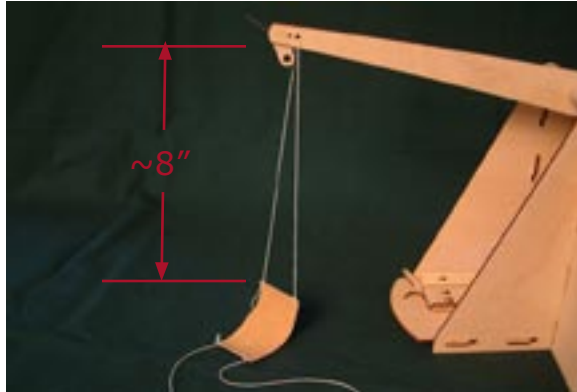
## STEP 24 - AXEL WASHERS

Attach washers to outside ends of axel to prevent disassembly.



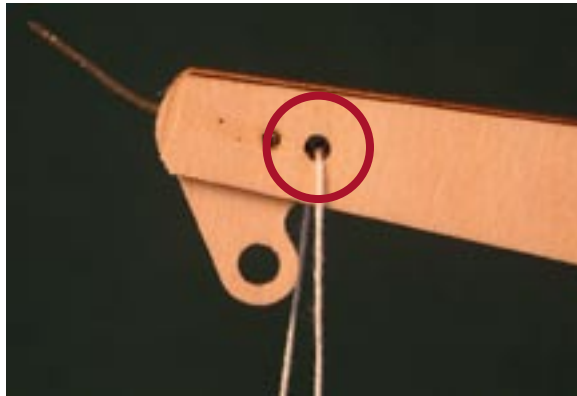
## STEP 25 - SLING ASSEMBLY

Locate the small leather patch and string. Cut the provided string roughly in half. When completed, the sling will hang approximately eight inches below the boom.



## STEP 26 - SLING FIXED ATTACHMENT

One of the of the sling will be permanently fixed to the boom. Run the string through the indicated hole and tie both ends to one of the short sides of the leather patch.



## STEP 27 - SLING LOOP

The remaining string is tied to the opposite end of the leather patch. It is then looped over the boom's hook.



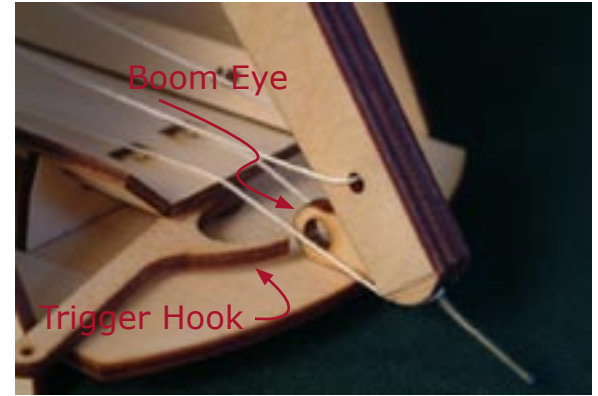
## STEP 28 - LOADING PROJECTILE

Insert projectile of choice into the sling. Pull the sling back through the frame, pulling the boom downward in the process. The projectile and sling then rest at the back end of the trough opposite the trigger.



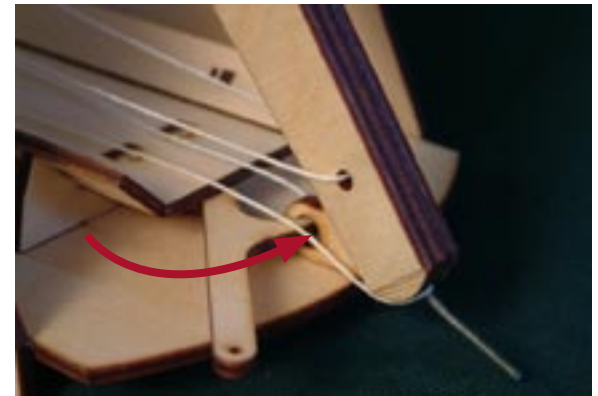
## STEP 29 - SETTING TRIGGER

Carefully align the boom's eye with the trigger hook.



## STEP 30 - READY TO FIRE

Pivot trigger hook into boom eye taking care to not tangle the trigger in the strings attached to the sling. You are now armed and ready.



## STEP 31 - COMPLETED MODEL

Aim your trebuchet model at your target and gently pull the trigger to release the boom.

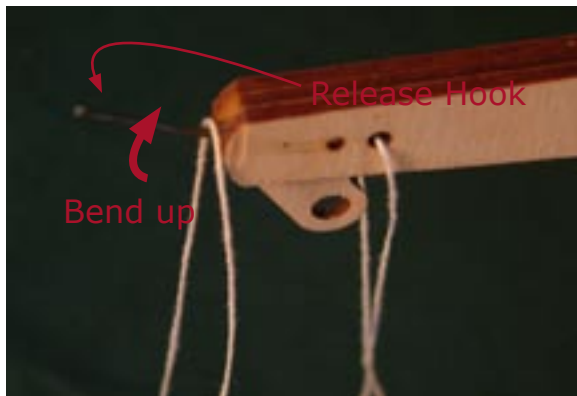


## SIGHTING IN

You will find that at times your trebuchet model does not fire as efficiently as you may want. This is normal and is affected by several factors: The weight of the projectile, the amount of weight in the weight box and the angle of the release hook. Of these, the release hook is the most dependent upon experience. Obviously, the more weight used the heavier the projectile can be and the farther it flies. However, if the release is not set right, one of two things happens; either the projectile goes straight up in the air or straight into the ground in front of the trebuchet. Neither of these is advantageous when you are in the midst of a siege. In fact, it can be painfully embarrassing. See below for corrections.

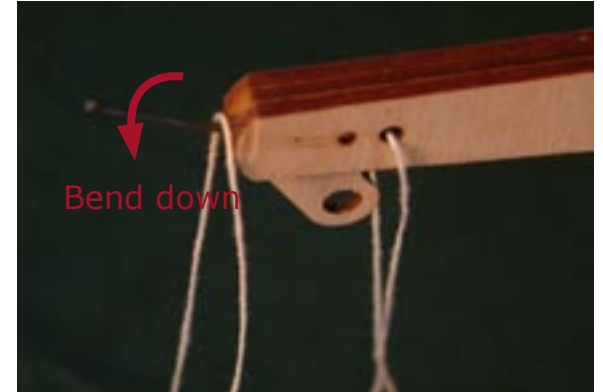
## PROJECTILE GOES STRAIGHT UP

The release hook allows the sling to open too soon. Correct by slightly bending the release hook forward, away from the boom's eye. Even a degree or two can have significant effects.



## PROJECTILE FAILS TO LAUNCH

If the release is too far forward it will not allow the sling to open at all. Simply bend the release hook back a bit to open it. A little practice will allow you to tune the release hook to maximize your distance.



The staff at Fluffy Bits would like to thank you for helping to support our vision of the gaming industry. We hope that you enjoy building and playing with your trebuchet model as much as we enjoyed designing it. Please feel free to drop us a line at [info@fluffybits.com](mailto:info@fluffybits.com) to let us know some of your records; farthest shot, most accuracy, etc. It's fun to hear about peoples' successes. To that point, let us know if there is a problem, too. If something needs to be corrected we depend on the gaming community to inform us.

Thanks,  
Fluffy Bits staff

